COMPLETE LISTING OF CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

 (currently amended) A method of forming a composite material comprising:

combining a reinforcement material which includes carbon-containing fibers with a carbonizable matrix material to form a mixture;

heating the mixture to a sufficient temperature to melt at least a portion of the matrix material, the step of heating including:

applying an electric current to the mixture to generate heat within the mixture; and

while heating the mixture, applying a pressure of at least 35 kg/cm² to the mixture to form a compressed composite material;

increasing the density of the compressed composite by introducing a carbonizable material into voids in the compressed composite and then baking the compressed composite to achieve a density of at least about 1.30 g/cm³; and

graphitizing the compressed composite having a density of at least about 1,30 g/cm³ in an inert atmosphere to a final temperature of at least 2000°C; and

impregnating the compressed composite, having a density of at least about 1.30 g/cm³, with a treating component <u>after graphitization</u>.

- 2. (canceled)
- 3. (original) The method of claim 1 wherein said treating component comprises at least one of a metal, a thermosettable resin, and combinations thereof.
- 4. (original) The method of claim 3 wherein said metal comprises at least one of aluminum, copper, boron, and combinations thereof.
- 5. (original) The method according to claim 3 wherein said thermosettable resin comprises phenolic resins, furan derived resins, epoxy resins, polyimides, cyanate esters, and combinations thereof.
- 6. (original) The method according to claim 5 further comprising curing said thermosettable resin.

- 7. (original) The method according to claim 1 wherein said compressed composite, having a density of at least about 1.45 g/cm³ comprises at least one friction additive.
- 8. (original) The method according to claim 1 wherein said impregnation comprises subjecting said compressed composite, having a density of at least about 1.45 g/cm³ to vacuum.
- 9. (original) The method according to claim 1 wherein said treating component comprises a thermosettable resin.
- 10. (original) The method according to claim 1 further comprising heating treating said compressed composite, having a density of at least about 1.45 g/cm³, to a temperature greater than the highest use temperature of said composite material.
- (withdrawn) A vehicle friction brake assembly comprising:

a friction element having at least a cast iron surface which rotates with a wheel of a vehicle; and

a braking element having a surface aligned to movably engage said cast iron surface of said friction element, wherein at least said surface of said braking element comprises a carbon/carbon composite impregnated with a treating component.

- 12. (withdrawn) The vehicle friction brake assembly according to claim 11 wherein said surface further comprises a friction additive.
- 13. (withdrawn) The vehicle friction brake assembly according to claim 12 wherein a concentration of said friction additive through a thickness of said surface comprises substantially uniform.
- 14. (withdrawn) The vehicle friction brake assembly according to claim 11 wherein said treating component comprises at least one of a metal, a thermosett material, and combinations thereof.

- 15. (withdrawn) The vehicle friction brake assembly according to claim 11 wherein said friction element comprises a brake drum or a brake rotor.
 - 16. (withdrawn) The vehicle friction brake assembly according to claim 11 wherein said braking element comprises a brake pad.
 - 17. (withdrawn) The vehicle friction brake assembly according to claim 11 wherein said treating component comprises a thermosett material.
 - 18. (withdrawn) A method of making a vehicle friction brake assembly comprising:

rotatably attaching a friction element comprising a cast iron surface onto a vehicle; and

aligning a braking element to movably engage said friction element, said braking element comprising a surface comprised of a carbon/carbon composite and a treating component, said surface of said braking element aligned to engage said cast iron surface.

- 19. (withdrawn) The method according to claim 18, wherein said treating component comprises at least one of a thermosett material, a metal, a metal alloy, and combinations thereof.
- 20. (withdrawn) The method according to claim 18, wherein said composite further comprise a friction additive.